bulls.ai

Early find, leave bullying behind

Group: 7

Selected team

Yaron Richter
Industrial engineering & management

Roni Epstien
Industrial engineering & management
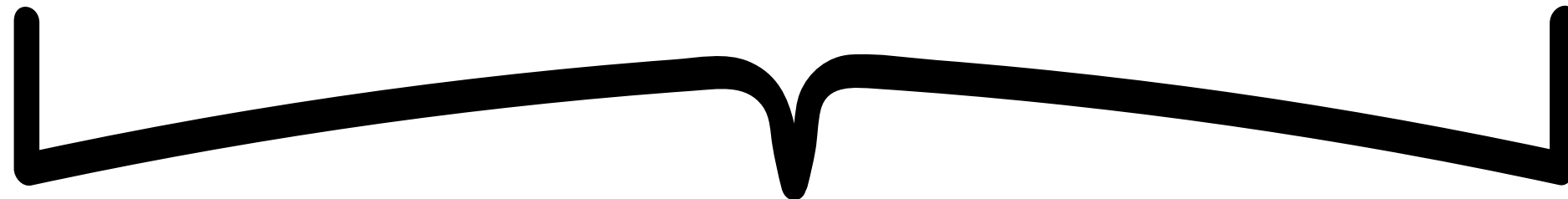
Kobi Karady
Industrial engineering & management

Naor Tzadok
Computer science & mathematics

Yanir Harlevi
Psychology & UX

Data

Programmer

Psychologist UX/UI
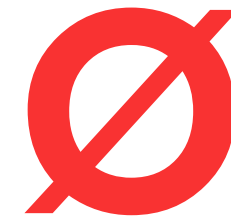
The Problem

Delayed Discovery
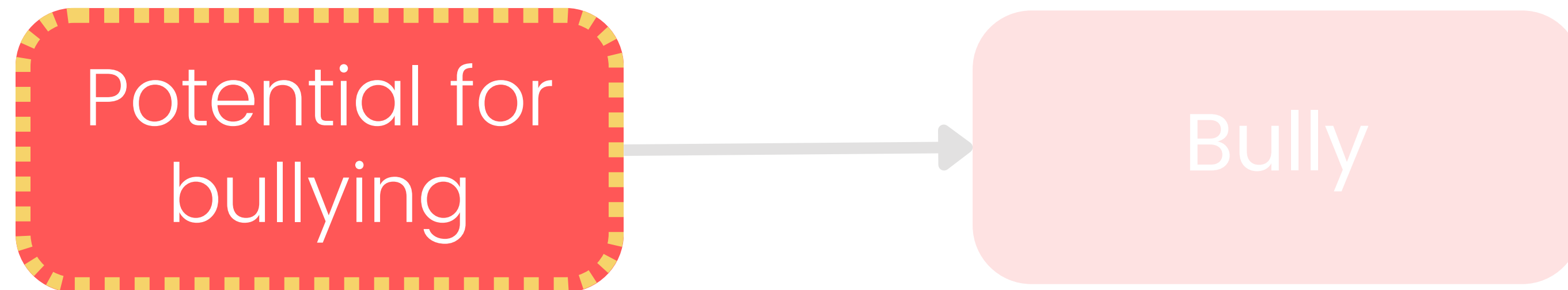
"Maybe we could have prevented it"

Problem - Information

bullies also suffer

No exsisting tool for
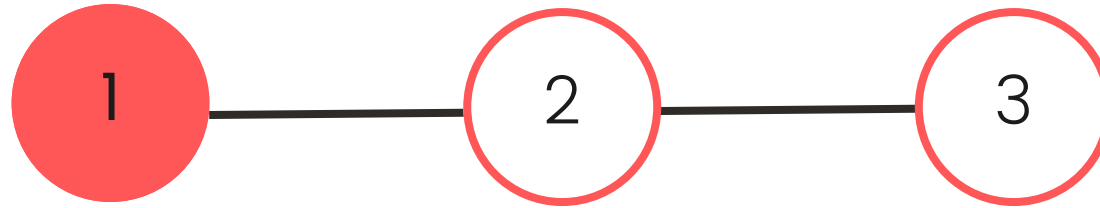pre-identifying bullying today

The Solution

Potential for bullying → **Bully**

The Product 📱

Detect & characterize potential bullies and track their behavior before.

bulls.ai

1 2 3

Data collection

Data Driven - משוב לתלמיד →

← Quarterly student module

טוב לראות אותך

ריכוז יומי

יום שני 15/05/2023 כ"ד אייר תשפ"ג

קיצורי דרך

כרטיס תלמיד | תיבת הודעות | מ. שעות ושינויים

שינויי מערכת יומיים

לא נמצאו נתונים.

נושאי שיעור ושיעורי-בית

עברית | שעור 1
התקיים
נושא: לא הוזן
שיעורי בית: לא הוזן

עברית | שעור 2
התקיים
נושא: לא הוזן
שיעורי בית: לא הוזן

אירועים בשיעור

חיזוק חיובי
אנגלית
הערה: עבודה והתנהגות
30/04/2023 [יום ראשון] שיעור 5

לא מוצדק | אי הכנת ש.ב.
מדעים
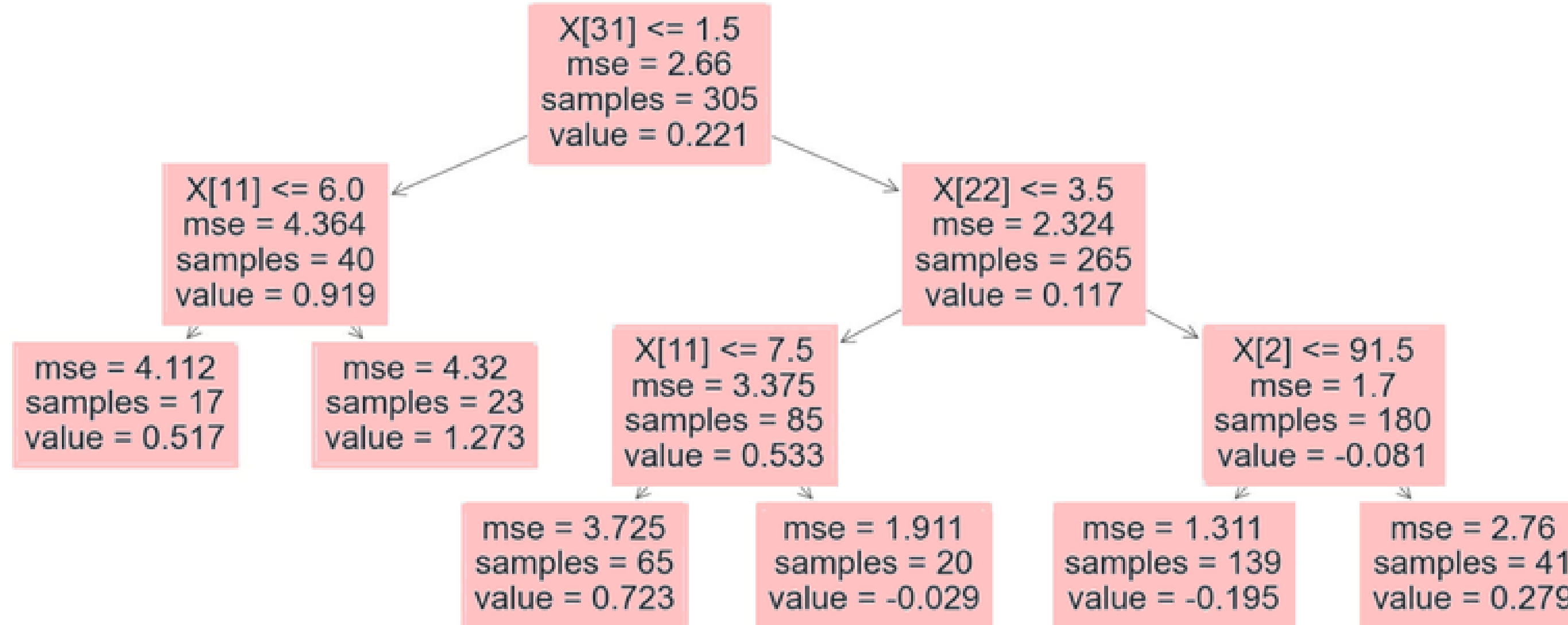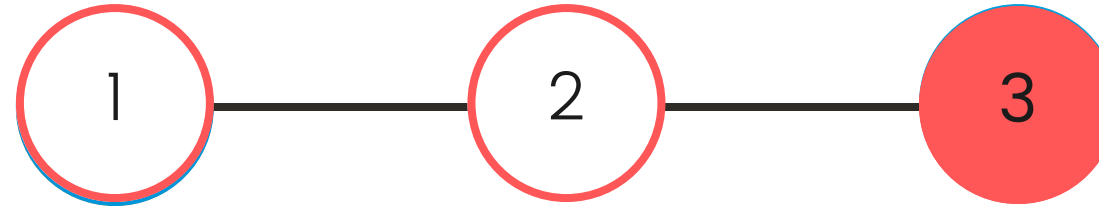20/04/2023 [יום חמישי] שיעור 3

Data prediction

```python
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=opt_rnd)

model = RandomForestRegressor(max_depth=opt_depth, random_state=opt_rnd)
model.fit(X_train, y_train)

# predictions on the test
y_pred = model.predict(X_test)
```
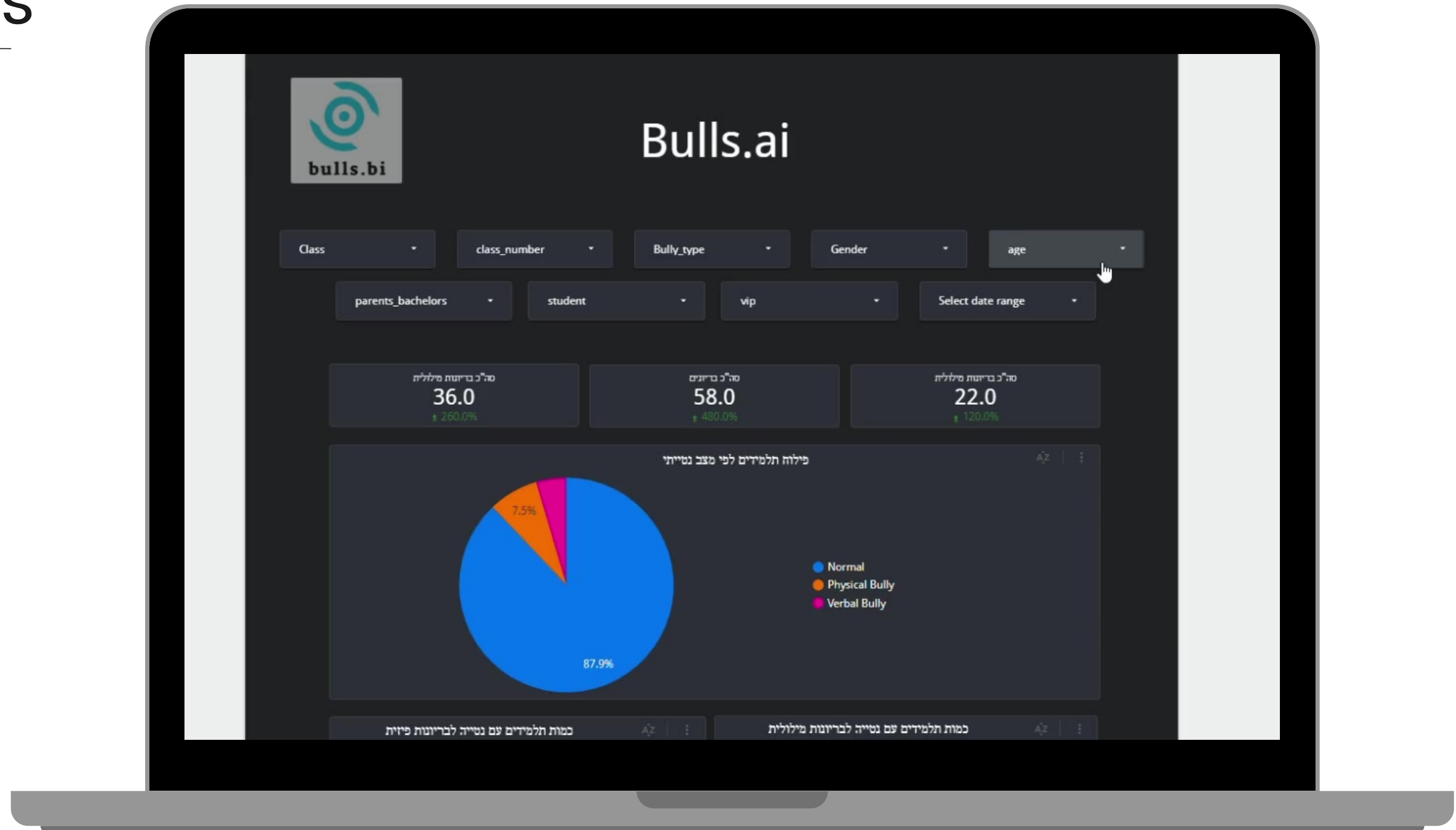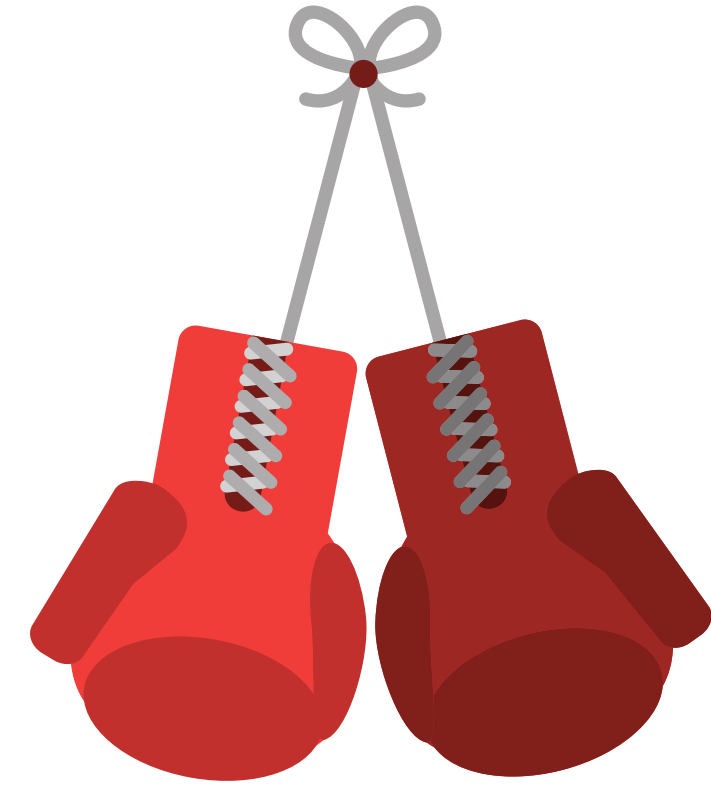
X[31] <= 1.5
mse = 2.66
samples = 305
value = 0.221

X[11] <= 6.0
mse = 4.364
samples = 40
value = 0.919

X[22] <= 3.5
mse = 2.324
samples = 265
value = 0.117

mse = 4.112
samples = 17
value = 0.517

mse = 4.32
samples = 23
value = 1.273

X[11] <= 7.5
mse = 3.375
samples = 85
value = 0.533

X[2] <= 91.5
mse = 1.7
samples = 180
value = -0.081

mse = 3.725
samples = 65
value = 0.723

mse = 1.911
samples = 20
value = -0.029

mse = 1.311
samples = 139
value = -0.195

mse = 2.76
samples = 41
value = 0.279

Findings

Business Model

Formal & informal educational systems

Competitive products

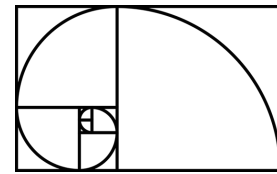שאלון אח"מ

סקר אקלים

Achivment Points

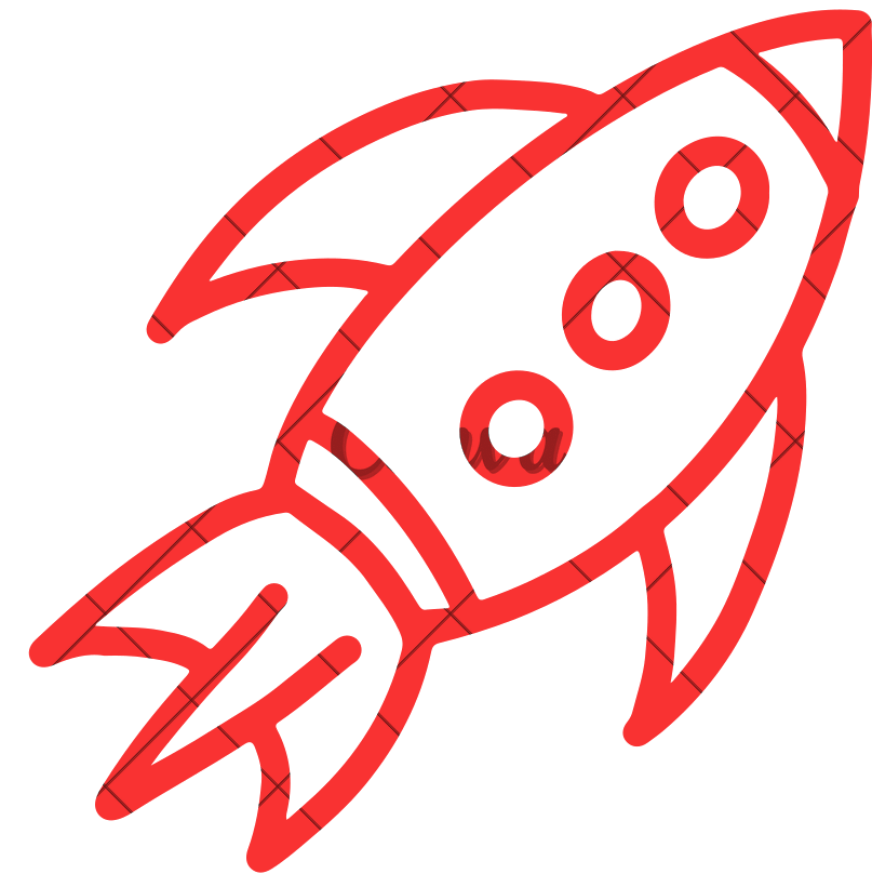## 1 out of 5+

Positively change the suffering probability.

5,275

Coverage of Israeli schools.

95%
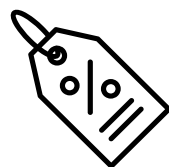
Model Accuracy 95% or above.

Reducing bully pathologies

THANK YOU!

Identifying is the First Stage of Prevention!